

MOBILE AERIAL COMMUNICATIONS ANTENNA
AND ASSOCIATED METHODS

ABSTRACT OF THE DISCLOSURE

A mobile aerial communications antenna assembly including a mobile aerial assembly and a transportation system operably connected to the mobile aerial assembly, wherein the transportation system includes a lift source operable for generating a lift force and a plurality of directional forces, providing the mobile aerial assembly with maneuverability in three dimensions. The mobile aerial communications antenna assembly also including a communications system operably connected to the mobile aerial assembly, wherein the communications system includes a communications device operable for transmitting and receiving a plurality of mobile communications signals.

The mobile aerial communications antenna assembly further including a control system in communication with the transportation system and/or the communications system, the control system operable for controlling the operation of the transportation system and/or the communications system.

CLTLIB01 669239 1